Sheet 1 of 5

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

O 1100 C 1 01 0	
Application Number	10/556,804
Filing Date	January 18, 2006
First Named Inventor	Luke Alphey
Art Unit	1619
Examiner Name	Shanon A. Foley
Attorney Docket Number	129-05

Confirmation No. 1467

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U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No.	Patent Number	Issue Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5,851,796	12/22/1998	Schatz	
	2	6,200,800	03-13-2001	Choulika et al.	
	3	6,962,810	11-08-2005	Fraser et al.	

U.S. PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No.	Publication Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	4	2003/0213005	11-13-2003	Alphey et al.	
	5	2003/0150007	08-07-2003	Savakis et al.	
	6	2004/0082032	04-29-2004	Bovi et al.	
	7	2005/0221430	10-06-1995	Prentice	
	8	2006/0212949	09-21-2006	Alphey	
	9	2006/0242717	10-26-2006	Alphey	
	10	2007/0056051	03-08-2007	Alphey	
	11	2008/0115233	05-15-2008	Alphey et al.	
	12	2009/0170793	07-02-2009	Gaur	
	13	2009/0183269	07-16-2009	Alphey	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	14	1996/24605	WO	08-15-1996	Ryner et al.		
	15	1998/008960	WO	03-05-1998	Amutan et al.		
	16	0955364	EP	11-10-1999	Savakis et al.		
	17	2000/073510	WO	12-07-2000	Bessereau et al.		
	18	2001/59088	WO	08-16-2001	Chernajovsky et al.		
	19	2001/091802	WO	12-06-2001	Aguilar-Cordova		
	20	2002/046444	WO	06-13-2002	Goryshin et al.		
	21	2002/101061	WO	12-19-2002	Perez et al.		
	22	2004/044150	WO	05-27-2004	Horn et al.		
	23	2004/098278	WO	11-18-2004	Alphey		
	24	2005/003364	WO	01-13-2005	Alphey		
	25	2005/012534	WO	02-10-2005	Alphey		
	26	2007/091099	WO	08-16-2007	Alphey		

Examiner	Date	
Signature	Considered	!

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SECOND SUPPLEMENTAL	First Named Inventor	Luke Alphey
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	Attorney Docket Number	129-05

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NON-PATENT LITERATURE DOCUMENTS

		REFERENCE	I
Examiner Initial*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 5
	27	Prosecution history for related application USSN 10/148,041, 64 pp.	
	28	Prosecution history for related application USSN 10/562,843, 63 pp.	
	29	Prosecution history for related application USSN 10/566,448, 142 pp.	
	30	Prosecution history for related application USSN 11/352,177, 129 pp.	
	31	Prosecution history for related application USSN 11/733,737, 175 pp.	
	32	Prosecution history for related application USSN 12/278,849, 32 pp.	
	33	Examination Report for European patent application serial number 04743590.4, dated November 14, 2008, 4 pages.	
	34	Search Report Corresponding to Great Britain Patent Application No. GB 0317656.7, Date of Search November 25, 2003, 1 page.	
	35	Search Report Corresponding to Great Britain Patent Application No. GB 0621234.4, Date of Search February 21, 2007, 1 page.	
	36	Search Report Corresponding to International Application No. PCT/GB2004/003263, Date of search October 21, 2004, Mailed May 11, 2004, 3 pages.	
	37	Search Report corresponding to International Application No. PCT/GB2007/000488, parent of the present application, Date of search May 11, 2007, Date of mailing June 6, 2007, 3 pages.	
	38	Written Opinion corresponding to International Application No. PCT/GB2007/000488, parent of the present application. Date according to WIPO website August 10, 2008, 8 pages.	
	39	International Preliminary Report on Patentability, corresponding to International Application No. PCT/GB2007/000488, parent of the present application, Date of completion of report May 5, 2008, 11 pages.	
	40	ARRIBAS et al. (1986) "The ubiquitin genes in <i>D. melanogaster</i> : transcription and polymorphism" Biochimica et Biophysica Acta 868:119-127.	
	41	ATKINSON et al. (2000) "Hermes and Other hAT Elements as Gene Vectors in Insects," In; Insect Transgenesis: Methods and Applications, Hadler et al. eds., Boca Raton CRC Press, pp. 219-235.	
	42	BIESCHKE et al. (Jun. 1998) "Doxycycline-Induced Transgene Expression During Drosophila Development and Aging," Mol. Gen Genet. 258(6):571-579.	
	43	BLITVICH et al. (2002) "Developmental- and tissue-specific expression of an inhibitor of apoptosis protein 1 homologue from <i>Aedes triseriatus</i> mosquitoes" Insect Molecular Biology 11(5):431-442.	
	44	CABERA et al. (2002) "Expression Pattern of Gal4 Enhancer Trap Insertions Into the bric à brac Locus Generated by P Element Replacement," Genesis 34:62-65.	
	45	CHEN et al. (1996) "Apoptotic Activity of REAPER Is Distict from Signaling by the Tumor Necrosis Factor Receptor 1 Death Domain" The Journal of Biological Chemistry 271(42):25735-25737.	

Examiner	Date	
Signature	Considered	

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		REFERENCE	1
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Examiner Initial*	No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	'
IIIIIIIII	INO.	publisher, city and/or country where published.	
	46	CHEN et al. (2000) "The Use of Modified Tetracycline Regulatory Expression System	
		with Reduced Basal Level to Develop and In Vivo Biopesticide Expression System,"	
		Food Sci Agricult. Chem. 2(4):220-225.	
	47	ELICK et al. (1997) "Analysis of the Cis-Acting DNA Elements Required for piggyback	
		Transposable Element Excision," Mol. Gen. Genet. 255:605-610.	
	48	ERNST, U. (1991) "Regulation of Sexual Differentiation in Drosophila: Alternative	
		Splicing of the <i>Transformer</i> Primary Transcript Requires Masking of the Non-Specific	
		Acceptor Site in Females," Inaugural Dissertation, Aus Frankfurt / Main, BRD	
		(ABSTRACT ONLY).	
	49	ERNST, U. (1991) "Regulation of Sexual Differentiation in <i>Drosophila</i> : Alternative	
		Splicing of the <i>Transformer</i> Primary Transcript Requires Masking of the Non-Specific	
		Acceptor Site in Females," Inaugural Dissertation, Aus Frankfurt / Main, BRD.	
	50	FUNAGUMA et al. (2005) "The Bmdsx transgene including trimmed introns is sex-	
		specifically spliced in tissues of the silkworm, <i>Bombyx mori</i> ", Journal of Insect Science	
		(online), 5(17):1-6.	
	51	FUSSENEGGER et al. (1997) "Autoregulated Multicistronic Expression Vectors	
		Provide One-Step Cloning of Regulated Product Gene Expression in Mammalian	
		Cells" Biotechnol. Prog. 13:733-740.	
	52	GLOOR et al. (1991) "Targeted Gene Replacement in <i>Drosophila</i> Via P Element-	
		Induced Gap Repair," Science 253:1110-1117.	
	53	GONG et al. (2005) "A dominant lethal genetic system for autocidal control of the	
		Mediterranean fruitfly", Nature Biotechnology 23(4):453-456.	
	54	GONZY-TREBOUL et al. (1995) "Enhancer-Trap Targeting at the Broad-Complex	
		Locus of Drosophila melanogaster," Genes Dev. 9:1137-1148.	
	55	GOSSEN and BUJARD (2001) "Tetracyclines in the control of gene expression in	
		eukaryotes" Tetracyclines in Biology, Chemistry and Medicine, pp. 139-157.	
	56	HANDLER et al. (2001) "A Current Prospective on Insect Gene Transformation," Insect	
		Biochem. Mol. Biol. 31(2):111-128.	
	57	HANDLER, A. (2002) "Use of <i>piggyback</i> Transposon for Germ-Line Transformation of	
		Insects," Insect Biochem. Mol. Biol. 32:1211-1220.	
	58	HESLIP et al. (1994) "Targeted Transposition at the <i>vestigial</i> Locus of <i>Drosophila</i>	
		melanogaster," Genetics 138:1127-1135.	
	59	HOFMANN et al. (1996) "Rapid Retroviral Delivery of Tetracycline-Inducible Genes in	
	00	a Single Autoregulatory Cassette," Proc. Nat. Acad. Sci. USA 93:5185-5190.	
	60	HONDRED et al. (1999) "Use of Ubiquitin Fusions to Augment Protein Expression in	
	0.1	Transgenic Plants" Plant Physiology 119:713-723.	
	61	HORN et al. (2000) "Highly sensitive, fluorescent transformation marker for <i>Drosophila</i>	
		transgenesis" Dev Genes Evol 210:623-629.	
	62	HORN et al. (2002) "Fluorescent Transformation Markers for Insect Transgenesis,"	
		Insect Biochem. Mol. Biol. 32:1221-1235.	
	63	HORN et al. (2003) "piggyBac-Based Insertional Metagenesis and Enhancer Detection	

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First Named Inventor	Luke Alphey
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		as a Tool for Functional Insect Genomics," Genetics 163(2):647-661.	
	64	JOHNSON-SCHLITZ et al. (1993) "P-Element-Induced Interallelic Gene Conversion of Insertions and Deletions in <i>Drosophila melanogaster</i> ," Mol Cell Biol. 13:7006-7018.	
	65	LANKENAU et al. (1996) "Comparison of Targeted-Gene Replacement Frequencies in <i>Drosophila melanogaster</i> at the <i>Forked</i> and <i>White</i> Loci," Mol. Cell Biol. 16:3535-3544.	
	66	LOUIS et al. (2003) "A Theoretical Model for the Regulation of Sex-Lethal, a Gene That Controls Sex Determination and Dosage Compensation in Drosophila melanogaster," Genetics 165:1355-1384.	
	67	LOUKERIS et al. (1995) "Introduction of the transposable element <i>Minos</i> into the germ line of <i>Drosophila melanogaster</i> " Proc. Natl. Acad. Sci. USA 92:9485-9489.	
	68	MUNOZ et al. (2004) "The AeAct-4 gene is expressed in the developing flight muscles of female <i>Aedes aegypti</i> ", Insect Molecular Biology 13(5):563-568.	
	69	PANE et al. (2002) "The <i>transformer</i> gene in <i>Ceratitis capitata</i> provides a genetic basis for selecting and remembering the sexual fate" Development 129:3715-3725.	
	70	piggyBac website, http://piggybac.bio.nd.edu/, March 21, 2006, 5 pp.	
	71	RONG et al. (2000) "Gene Targeting by Homologous Recombination in <i>Drosophila</i> ," Science 288:2013-2018.	
	72	RONG et al. (2001) "A Targeted Gene Knockout in Drosophila," Genetics 157:1307-1312.	
	73	RUSS et al. (1996) "Self-Deleting Retrovirus Vectors for Gene Therapy," J. Virol. 70:4927-4932.	
	74	SACCONE et al. (2000) "Sex Determination in Medfly: A Molecular Approach," In; Area-Wide Control of Fruit Flies and Other Pest Insects, Tan, K.H. ed., Penerbit USM, Penag, pp. 491-496.	
	75	SACCONE et al. (2002) "Sex determination in flies, fruitflies and butterflies" Genetica 116:15-23.	
	76	SCALI et al. (2005) "Identification of sex-specific transcripts of the <i>Anopheles gambiae</i> doublesex gene", Journal of Experimental Biology 208(19):3701-3709.	
	77	SEPP et al. (1999) "Conversion of <i>lacZ</i> Enhanced Trap Lines to <i>GAL4</i> Lines Using Targeted Transposition in <i>Drosophila melanogaster</i> ," Genetics 151:1093-1101.	
	78	SHOCKETT et al. (1995) "A Modified Tetracycline-Regulated System Provides Autoregulatory, Inducible Gene Expression in Cultured Cells and Transgenic Mice," Proc. Nat. Acad. Sci. USA 92:6522-6526.	
	79	STEBBINS et al. (2001) "Tetracycline-Inducible Systems for <i>Drosophila</i> ," Proc. Nat. Acad. Sci. USA 98:10775-10780.	
	80	STEBBINS et al. (2001) "Adaptable Doxycycline-Regulated Gene Expression Systems for <i>Drosophila</i> ," Gene 270:103-111.	
	81	STEINER et al. (1995) "Homologous Recombination as the Main Mechanism for DNA Integration and Cause of Rearrangements in the Filamentous Ascomycete <i>Ashbya gossypii</i> ," Genetics 140:973-987.	

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Examiner Initial*	Cite No.	[(hook_magazine_iournal_serial_symposium_catalog_etc.) date_page(s)_volume-issue_number(s)	
	82 WOBUS et al. (1990) "A New Transposable Element in <i>Chironomus thummi</i> ," Mol. General Genet. 222:311-316.		
	WU et al. (2000) "Expression of Highly Controllable Genes in Insect Cells Using a Modified Tetracycline-Regulated Gene Expression System," J. Biotechnol. 80(1):75-83		

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